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AACP Curriculum and Facilities Survey

For Academic Year 1987-88

by

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Data Tabulated by

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AACP CURRICULUM AND FACILITIES SURVEY

FOR ACADEMIC YEAR 1987-1988

INTRODUCTION

The 1987-88 AACP Curriculum and Facilities Survey provides a third opportunity to compare the areas of program and plant for the colleges of pharmacy in the U.S.

All 74 colleges of pharmacy in the U.S. responded. The survey covers the use of non-salaried (voluntary) faculty, hours required for practice experience in clerkships and externships, hours of general education courses required as a part of the professional degree program, changes in facilities over the previous year, and the number of clinical instruction sites of various types used during the 1987-88 academic year.

The statistical analysis summarizes most responses with highs, lows, and averages, according to the number of colleges responding to each item. An exception is facilities where raw data and percentages are presented for each type of facility and category. Averages are recorded to the nearest whole hour, person, or site.

ANALYSIS

The number of non-salaried (voluntary) faculty utilized during the year ranged from 13 to 350, with an average of 121 non-salaried faculty being used by the 69 colleges reporting such activity.

For baccalaureate degree clerkships, 66 schools reported an average of 252 hours of required practice experience, with a low of 22 hours and a high of 750 hours (see Tables 1 & 2). Hours for B.S. externships averaged 394, with a range of 100 to 705 hours. Hours which may be selected from either B.S. externship or clerkship ranged from 40 up to 1,000, with an average of 263 hours.

Among the 27 colleges reporting on the Doctor of Pharmacy degree (entry level), clerkships averaged 1,353 hours, with a range of 675 to 2,160 hours, and externships averaged 452 hours with a 200 to 1,500 hour range. Hours which may be selected from either externships or clerkships for the Doctor of Pharmacy degree (entry level) averaged 390, with a range of 100 to 1,020 hours.

For the post B.S. Doctor of Pharmacy degree, 35 schools reported an average clerkship of 1,635 hours, with a range of 675 to 2,990 hours. The 3 colleges reporting post B.S. Doctor of Pharmacy externships averaged 267 hours, and ranged from a low of 200 hours to a high of 400 hours. The 12 schools which reported hours which may be selected from either externships or clerkships for the post B.S Doctor of Pharmacy degree reported an average of 655 hours, with a range from 200 up to 1,500 hours.

The number of hours of general education courses required (i.e., English and other courses in the behavioral, social and humanities disciplines) averaged 28 hours for the 51 colleges on a semester hour basis, and ranged from 6 to 40 hours (see Table 3). The 16 colleges on a quarter hour basis averaged 45 hours, with a range of 15 to 99 hours. A trimester or triquarter plan reported by 4 schools had a range of 28 to 68 hours, and with an average of 43 hours.

Table 4 presents changes over the previous year in the physical facilities utilized by the colleges of pharmacy. Only 6.8% of the respondents reported a decrease in classrooms, and less than 1.5% decreases were reported for the other 4 types of facilities. The greatest increases were reported for research laboratories, at 28.4% for those schools reporting, followed by administration (12.2%) and instructional support (16.2%).

The number of community pharmacies used as clinical instruction sites during the year averaged 44 for the 70 schools reporting, and ranged from a low of 5 to a high of 176 (see Table 5). Hospitals or similar institutions were used by 72 colleges and averaged 25, with a 3 to 86 range. Finally, 53 schools reported the use of other sites for clinical instruction, with a range of 1 to 54, and an average of 9 for the various other sites used.

TABLE 1. HOURS OF PRACTICE EXPERIENCE REQUIRED BY SCHOOL

		BS			Pharm D1			Pharm D2	
CODE	SCHOOL	CL	EX	SEL	CL	EX	SEL	CL	EX
1	Auburn	80	400					1600	
2	Samford	200	400	200	1000	400	400	1000	400
3	Arizona	225	225	225	675	225	1020	675	
4	Arkansas	320	320	80					
5	California (SF)					1500	100		
6	Pacific	168	640		1056	528	528	1584	
7	Southern California				1440	210			
8	Colorado	152	304	152					
9	Connecticut	22	315						
10	Howard	400	600	1000	1500	400		1500	
11	Florida A & M	750		750	1200		300	1200	
12	Southeastern	640	640		1280	640		1280	
13	Florida	400			1280				
14	Mercer				1200	480	400		
15	Georgia	160	480		1200	320		1200	
16	Idaho State	320	320						
17	Illinois				1600	560			
18	Butler	120	560						
19	Purdue	120	480		1440	480		1280	
20	Drake	360	360						
21	Iowa	320	320					1920	
22	Kansas	240	480		960	480			
23	Kentucky	320	320	320	1280	320		1280	
24	NE Louisiana	160	400						
25	Xavier	150	300					1500	
26	Maryland	200	640	160	1980	480	160	1980	
27	Massachusetts	320	400					1800	
28	Northeastern	400	520					1600	
29	Ferris State	240	120	40					
30	Michigan				1176	200	200	1176	200
31	Wayne State	240	140	140				2000	
32	Minnesota	275	550		1280	640	320	1280	
33	Mississippi	420	420						
34	St. Louis	200	400		1384	400			
35	Missouri	300	320						
36	Montana	200	400						
37	Creighton	320	320		1280	320	480	1280	
38	Nebraska				1280	280			
39	Rutgers	160	640	160					
40	New Mexico	180	360	135					
41	A & M Schwartz	240	480						

TABLE 1. (CONTINUED)

CODE	SCHOOL	BS CL	BS EX	BS SEL	Pharm D1 CL	Pharm D1 EX	Pharm D1 SEL	Pharm D2 CL	Pharm D2 EX
42	St. Johns	400	239					2990	
43	SUNY Buffalo	200	360	200				1920	
44	Albany	200	400						
45	Campbell				1200	400			
46	North Carolina	160	480		1600	480		1600	
47	North Dakota	400	400					1920	
48	Ohio Northern	200	440						
49	Ohio State	30	400					2000	
50	Cincinnati	160	320	160				1344	
51	Toledo	360	400	760					
52	SW Oklahoma	276	432	320					
53	Oklahoma	170	374						
54	Oregon State	120	320					1920	
55	Duquesne	160	480					2080	
56	Philadelphia	160	320	160			640	2160	
57	Temple	60	480	160					
58	Pittsburgh	224	360						
59	Puerto Rico	216	252	72					
60	Rhode Island	300	300					1920	
61	S. C. Medical	180	375					2000	
62	South Carolina	320	320		1600	320			
63	South Dakota	240	400						
64	Tennessee				1120	320	320		
65	Texas Southern	450	550		1550	470	200	1550	
66	Houston	350	650						
67	Texas	325	705		2160	705		2160	
68	Utah	300	200		1800	200		1800	200
69	VA Commonwealth	160	320	160				1280	
70	Washington	100	300					1440	
71	Washington State	320	332						
72	West Virginia	160	320	160					
73	Wisconsin	320	100						
74	Wyoming	300	300						
1987-88	AVERAGE	252	394	263	1353	452	390	1635	267
	NUMBER OF REPORTS	(66)	(64)	(21)	(27)	(26)	(13)	(35)	(3)
1986-87	AVERAGE	269	406	NA	1553	418	NA	1742	329
	NUMBER OF REPORTS	(60)	(60)	NA	(24)	(23)	NA	(31)	(5)

(CL = Clerkship EX = Externship SEL = Selected)

TABLE 2. HOURS OF PRACTICE EXPERIENCE

DEGREE AND EXPERIENCE TYPE	SCHOOLS REPORTING	LOW	HIGH	AVERAGE
BACCALAUREATE DEGREE				
CLERKSHIP	66	22	750	252
EXTERNSHIP	64	100	705	394
SELECTED FROM EITHER	21	40	1000	263
DOCTOR OF PHARMACY DEGREE (ENTRY LEVEL)				
CLERKSHIP	27	675	2160	1353
EXTERNSHIP	26	200	1500	452
SELECTED FROM EITHER	13	100	1020	390
DOCTOR OF PHARMACY DEGREE (POST B.S.)				
CLERKSHIP	35	675	2990	1635
EXTERNSHIP	3	200	400	267
SELECTED FROM EITHER	12	200	1500	655

TABLE 3. HOURS OF GENERAL EDUCATION COURSES REQUIRED AS PART OF PROFESSIONAL DEGREE PROGRAM

TYPE ORGANIZATION	SCHOOLS REPORTING	LOW	HIGH	AVERAGE
SEMESTER HOURS	51	6	40	28
QUARTER HOURS	16	15	99	45
TRIMESTER OR TRIQUARTER HOURS	4	28	68	43

TABLE 4. CHANGES TO PHYSICAL FACILITIES FROM LAST ACADEMIC YEAR

TYPE FACILITY	SCHOOLS REPORTING	TOTALS INCREASE	DECREASE	NO CHANGE
CLASSROOM	74 100%	5 6.8%	4 5.4%	65 87.8%
TEACHING LABORATORY	74 100%	4 5.4%	1 1.4%	69 93.2%
RESEARCH LABORATORY	74 100%	21 28.4%	0 0.0%	53 71.6%
ADMINISTRATION	74 100%	9 12.2%	1 1.4%	64 86.5%
INSTRUCTIONAL SUPPORT	74 100%	12 16.2%	1 1.4%	61 82.4%

TABLE 5. CLINICAL INSTRUCTION SITES USED

TYPE	SCHOOLS REPORTING	LOW	HIGH	AVERAGE
COMMUNITY PHARMACIES	70	5	176	44
HOSPITAL, OR OTHER SIMILAR INSTITUTION	72	3	86	25
OTHER SITES	53	1	54	9

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All 74 colleges of pharmacy in the United States responded. The survey covers the use of non-salaried (voluntary) faculty, hours required for practice experience in clerkships and externships, hours of general education courses required as a part of the professional degree program, changes in facilities over the previous year, and the number of clinical instruction sites of various types used during the 1988-89 academic year.

The statistical analysis summarizes most responses with highs, lows, and averages, according to the number of colleges responding to each item. An exception is facilities where raw data and percentages are presented for each type of facility and category. Averages are recorded to the nearest whole hour, person, or site.

ANALYSIS

The number of non-salaried (voluntary) faculty utilized during the year ranged from 8 to 430, with an average of 126 non-salaried faculty being used by the 71 colleges reporting such activity.

For baccalaureate degree clerkships, 63 schools reported an average of 278 hours of required practice experience, with a low of 80 hours and a high of 1000 hours (see Tables 1 & 2). Hours for B.S. externships averaged 411, with a range of 128 to 1000 hours. Hours which may be selected from either B.S. externship or clerkship ranged from 72 up to 584, with an average of 176 hours.

Among the 33 colleges reporting on the Doctor of Pharmacy degree (entry level), clerkships averaged 1,347 hours, with a range of 640 to 2,540 hours, and externships averaged 405 hours, with a 96 to 750 hour range. Hours which may be selected from either externships or clerkships for the Doctor of Pharmacy degree (entry level) averaged 470, with a range of 160 to 720 hours.

For the post B.S. Doctor of Pharmacy degree, 38 schools reported an average clerkship of 1,584 hours, with a range of 704 to 2,990 hours. The 5 colleges reporting post B.S. Doctor of Pharmacy externships averaged 358 hours, and ranged from a low of 200 hours to a high of 640 hours. The 11 schools which reported hours which may be selected from either externships or clerkships for the post B.S. Doctor of Pharmacy degree reported an average of 506 hours, with a range from 160 up to 1,056 hours.

The number of hours of general education courses required (i.e., English and other courses in the behavioral, social and humanities disciplines) averaged 31 hours for the 47 colleges on a semester hour basis, and ranged from 6 to 60 hours (see Table 3). The 16 colleges on a quarter hour basis averaged 42 hours, with a range of 15 to 99 hours. A trimester or triquarter plan was reported by only 2 schools this year, so range and average data are omitted.

Table 4 presents changes over the previous year in the physical facilities utilized by the colleges of pharmacy. Only 6.9% of the respondents reported a decrease in teaching laboratories, and 4.2% a decrease in classrooms. No decreases were reported for the other 3 types of facilities. The greatest increases were reported for research laboratories, at 34.7% for those schools reporting, followed by administration (15.3%) and instructional support (23.6%).

The number of community pharmacies used as clinical instruction sites during the year averaged 52 for the 70 schools reporting, and ranged from a low of 3 to a high of 225 (see Table 5). Hospitals or similar institutions were used by 72 colleges and averaged 28, with a 3 to 99 range. Finally, 51 schools reported the use of other sites for clinical instruction, with a range of 1 to 85, and an average of 11 for the various other sites used.

TABLE 1. HOURS OF PRACTICE EXPERIENCE REQUIRED BY SCHOOL

CODE	SCHOOL	BS			Pharm D1			Pharm D2		
		CL	EX	SEL	CL	EX	SEL	CL	EX	SEL
1	Auburn	80	400					1600		
2	Samford	200	400	150	800	400	400	800	400	400
3	Arizona				720	480	720			
4	Arkansas	320	240	160						
5	California (SF)				1320	96	324			
6	Pacific	168	640		1056	528	528	1584		1056
7	Southern California				1440	205		1440		
8	Colorado	150	300	150						
9	Connecticut	225	315							
10	Howard	400	664		1500	464		1500		
11	Florida A & M	750	750		1380	750		1540		
12	Southeastern	640	640		1280	640		1280		
13	Florida	320	320		1280	320				
14	Mercer				800	400	400			
15	Georgia	160	480		640	320	480	960		580
16	Idaho State	160	160		1280	160	320	960		160
17	Illinois				1320	560				
18	Butler	160	480							
19	Purdue	120	480		1280	480		1280		
20	Drake	360	360							
21	Iowa	320	320					1400		520
22	Kansas	240	480		960	480				
23	Kentucky	320	320		1280	320		1280		
24	NE Louisiana	160	400							
25	Xavier	150	150	150				1600		
26	Maryland	200	800		2000	480		2000		
27	Massachusetts	320	400					1800		
28	Northeastern	400	520					1600		
29	Ferris State	400	400							
30	Michigan				1200	200	200	1200	200	200
31	Wayne State	240	140	140				2000		
32	Minnesota		880		1600	640		1920		
33	Mississippi	420	420					1120		
34	St. Louis	200	400	200	1832	400	200			
35	Missouri	300	320		1280					
36	Montana	200	400							
37	Creighton	320	320		1080	320	640	1080		960
38	Nebraska				800	320	480			
39	Rutgers	160	640	160	1760	480		1760		
40	New Mexico	180	360	135						
41	A & M Schwartz	480	240							
42	St. Johns	400	239					2990		
43	SUNY Buffalo	200	360	200				1920		
44	Albany	200	400					1440		
45	Campbell				1200	480				
46	North Carolina	160	480		1680	480		1680	640	

TABLE 1. (CONTINUED)

CODE	SCHOOL	BS CL	BS EX	BS SEL	Pharm D1 CL	Pharm D1 EX	Pharm D1 SEL	Pharm D2 CL	Pharm D2 EX	Pharm D2 SEL
47	North Dakota	700	800					2080		
48	Ohio Northern	400	400							
49	Ohio State		400					2080		
50	Cincinnati	160	320	160				1344		
51	Toledo	360	400							
52	SW Oklahoma	215	430							
53	Oklahoma	170	374							
54	Oregon State	120	320							
55	Duquesne	160	480					2080		
56	Philadelphia	160	320	160	2540	320	160	2480		
57	Temple	160	320	160						
58	Pittsburgh	194	390	584						
59	Puerto Rico	216	252	72						
60	Puerto Rico	300	300							
61	S.C. Medical	288	288					704	352	704
62	South Carolina	320	320		1600	320		1280		
63	South Dakota	240	400							
64	Tennessee				1120	320	320			
65	Texas Southern	450	550	150	1725	470	200	1725		200
66	Houston	1000	1000							
67	Texas	300	600		2160	600		2160		
68	Utah	200	200	100	1800	200		1800	200	
69	VA Commonwealth	160	320	160	1440	320		1280		480
70	Washington	100	300					1440		400
71	Washington State	320	320							
72	West Virginia	160	480							
73	Wisconsin	320	128							
74	Wyoming	150	450							
1987-88										
	AVERAGE	252	394	263	1353	452	390	1635	267	
	NUMBER OF REPORTS	(66)	(64)	(21)	(27)	(26)	(13)	(35)	(3)	
1988-89										
	AVERAGE	278	411	176	1347	405	384	1584	358	506
	NUMBER OF REPORTS	(63)	(65)	17	(33)	(32)	14	(38)	(5)	(11)

(CL = Clerkship, EX = Externship, SEL = Selected)

TABLE 2. HOURS OF PRACTICE EXPERIENCE

DEGREE AND EXPERIENCE TYPE	SCHOOLS REPORTING	LOW	HIGH	AVERAGE
BACCALAUREATE DEGREE				
Clerkship	63	80	1000	278
Externship	65	128	1000	411
Selected From Either	17	72	584	176
DOCTOR OF PHARMACY DEGREE (ENTRY LEVEL)				
Clerkship	33	640	2540	1347
Externship	32	96	750	405
Selected From Either	14	160	720	384
DOCTOR OF PHARMACY DEGREE (POST B.S.)				
Clerkship	38	704	2990	1584
Externship	5	200	640	358
Selected From Either	11	160	1056	506

TABLE 3. HOURS OF GENERAL EDUCATION COURSES REQUIRED AS PART OF PROFESSIONAL DEGREE PROGRAM

TYPE ORGANIZATION	SCHOOLS REPORTING	LOW	HIGH	AVERAGE
SEMESTER HOURS	47	6	60	31
QUARTER HOURS	16	4	95	42
TRIMESTER OR TRIQUARTER HOURS	2	NA	NA	NA

TABLE 4. CHANGES TO PHYSICAL FACILITIES FROM LAST ACADEMIC YEAR

TYPE FACILITY	SCHOOLS REPORTING	INCREASE	TOTALS DECREASE	NO CHANGE
CLASSROOM	72 100%	8 11.1%	3 4.2%	61 84.7%
TEACHING LABORATORY	72 100%	9 12.5%	5 6.9%	58 80.6%
RESEARCH LABORATORY	72 100%	25 34.7%	0 0.0%	47 65.3%
ADMINISTRATION	72 100%	11 15.3%	0 0.0%	61 84.7%
INSTRUCTIONAL SUPPORT	72 100%	17 23.6%	0 0.0%	55 76.4%

TABLE 5. CLINICAL INSTRUCTION SITES USED

TYPE	SCHOOLS REPORTING	LOW	HIGH	AVERAGE
COMMUNITY PHARMACIES	70	3	225	52
HOSPITAL, OR OTHER SIMILAR INSTITUTION	72	3	99	28
OTHER SITES	51	1	85	11